SERVICE MANUAL

STEREO TURNTABLE

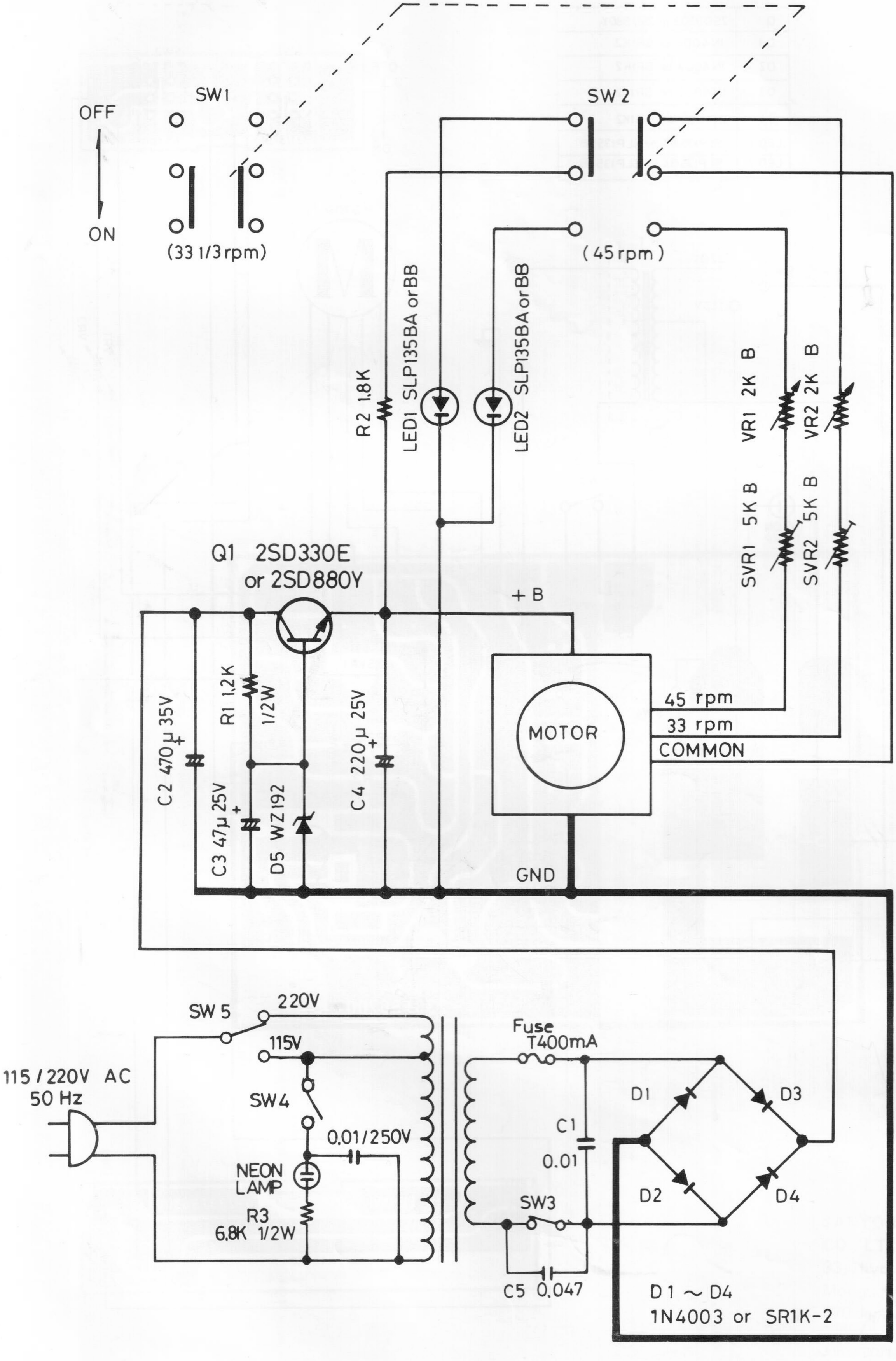
SANYO

TP 1024

(EUROPE)

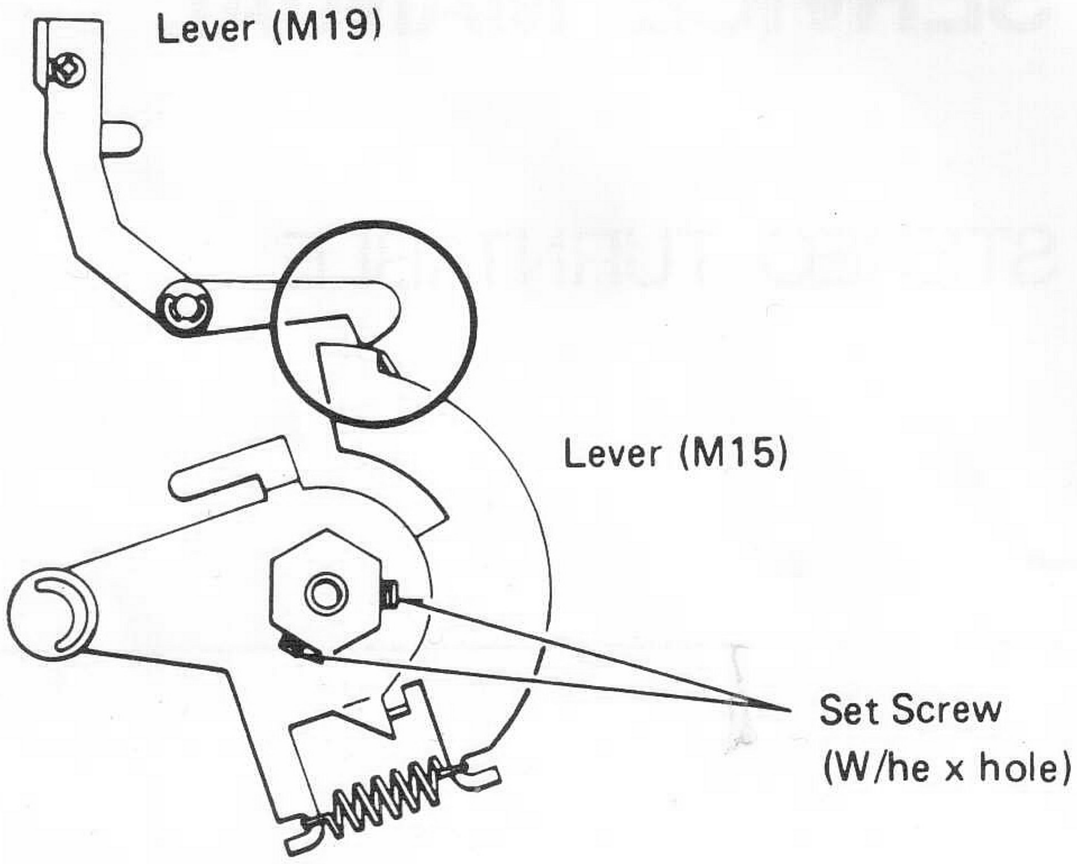
SPECIFICATIONS

Motor	Brushless servo motor
Drive system	Direct drive/Full auto
Speed	33-1/3 and 45 rpm
Wow and flutter	Less than 0.04% WRMS
Turntable platter	312mm (12-5/16"), 1kg (2 lbs. 3 ozs.)
Tone arm	Static-balance type
Tracking error	±1.5°
Overhang	15mm
Cartridge and stylus	Magnetic stereo cartridge (MM type) (No. MG-35D), 0.6 mil diamond stylus (No. ST-35D)
Stylus pressure	1.5 – 2.5g.
Frequency response	20 – 20,000Hz
Channel separation	Better than 20dB
Power source	AC: 115/220V, 50Hz
Power consumption	6W
Dimensions (Approx.)	440 (W) x 390 (D) x 140 (H) mm (17-3/8" x 15-3/8" x 5-9/16")
Weight (Approx.)	5.8kg (12 lbs. 13 ozs.)


SW1
OFF
ON
(33 1/3rpm)
SW 2
(45rpm)
R2 1.8K
LED1 SLP135B
LED2 SLP135B
5BA orBB
5BA orBB
Q1 2SD330E
or 2SD880Y
+ B
C2 470μ 35V
R1 1.2K
1/2W
C3 47μ 25V
D5 WZ192
C4 220μ 25V
MOTOR
GND
SVR1 5K B
VR1 2K B
SVR2 5K B
VR2 2K B
45 rpm
33 rpm
COMMON
115 / 220V AC
50 Hz
SW 5
220V
115V
SW4
0.01/250V
NEON
LAMP
R3
6.8K 1/2W
Fuse
T400mA
C1
0.01
SW3
C5 0.047
D1
D2
D3
D4
D1 ~ D4
1N4003 or SR1K-2

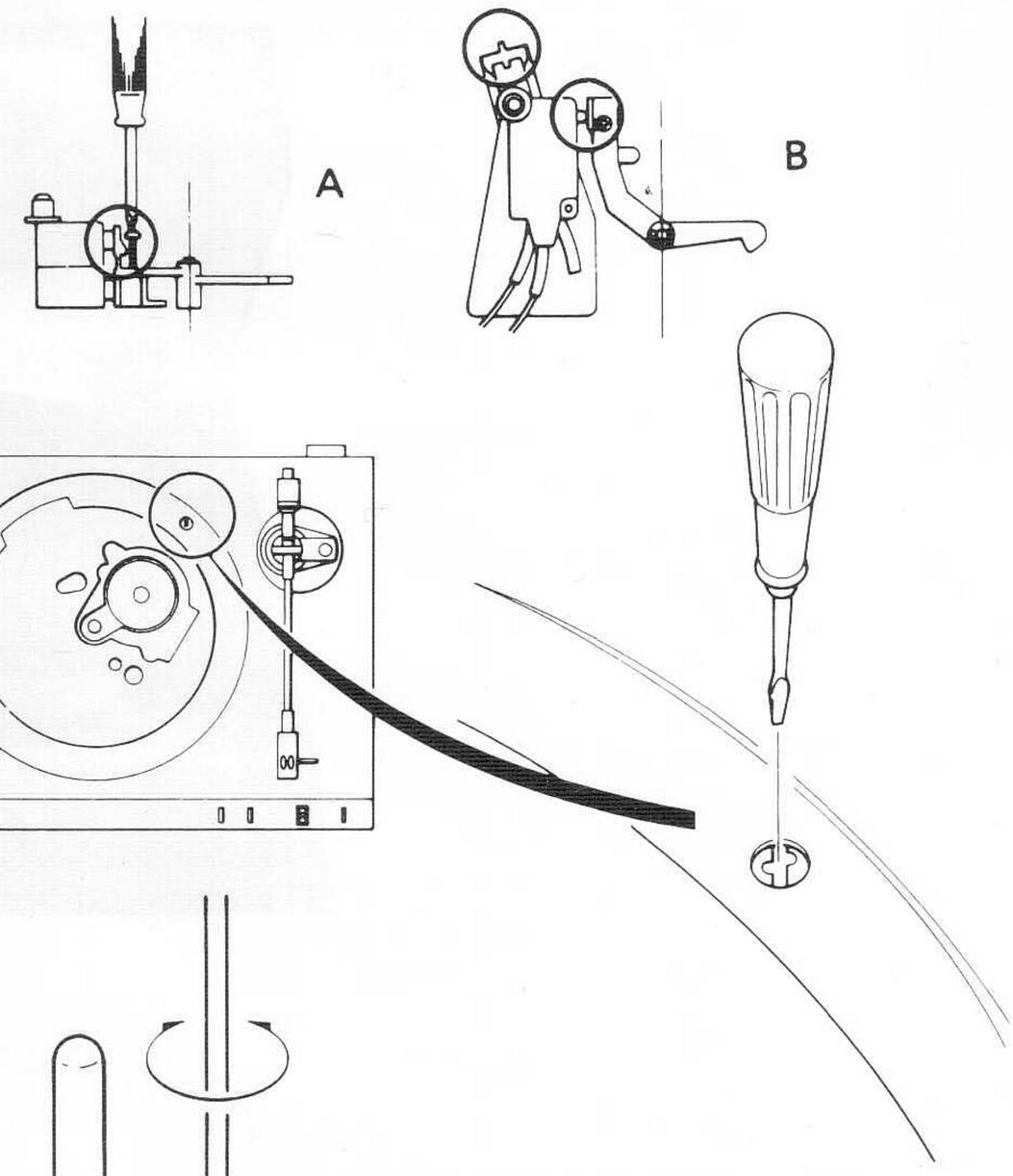
ADJUSTMENT OF TONEARM LEVER

Set the turntable unit upside down after putting the tonearm on the arm rest and securing it.
Then, loosen the set screw (w/hex hole) and position the lever (M15) in such a way that the protrusion of the microswitch contacts the foremost end of the lever.



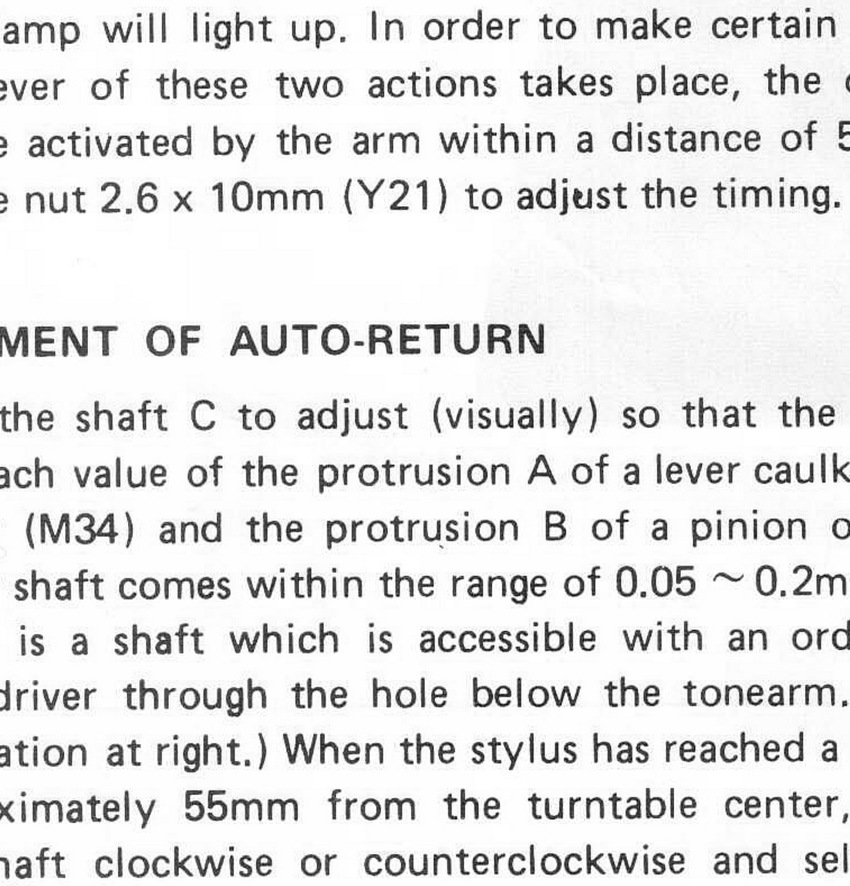
ADJUSTMENT OF MICRO-SWITCH

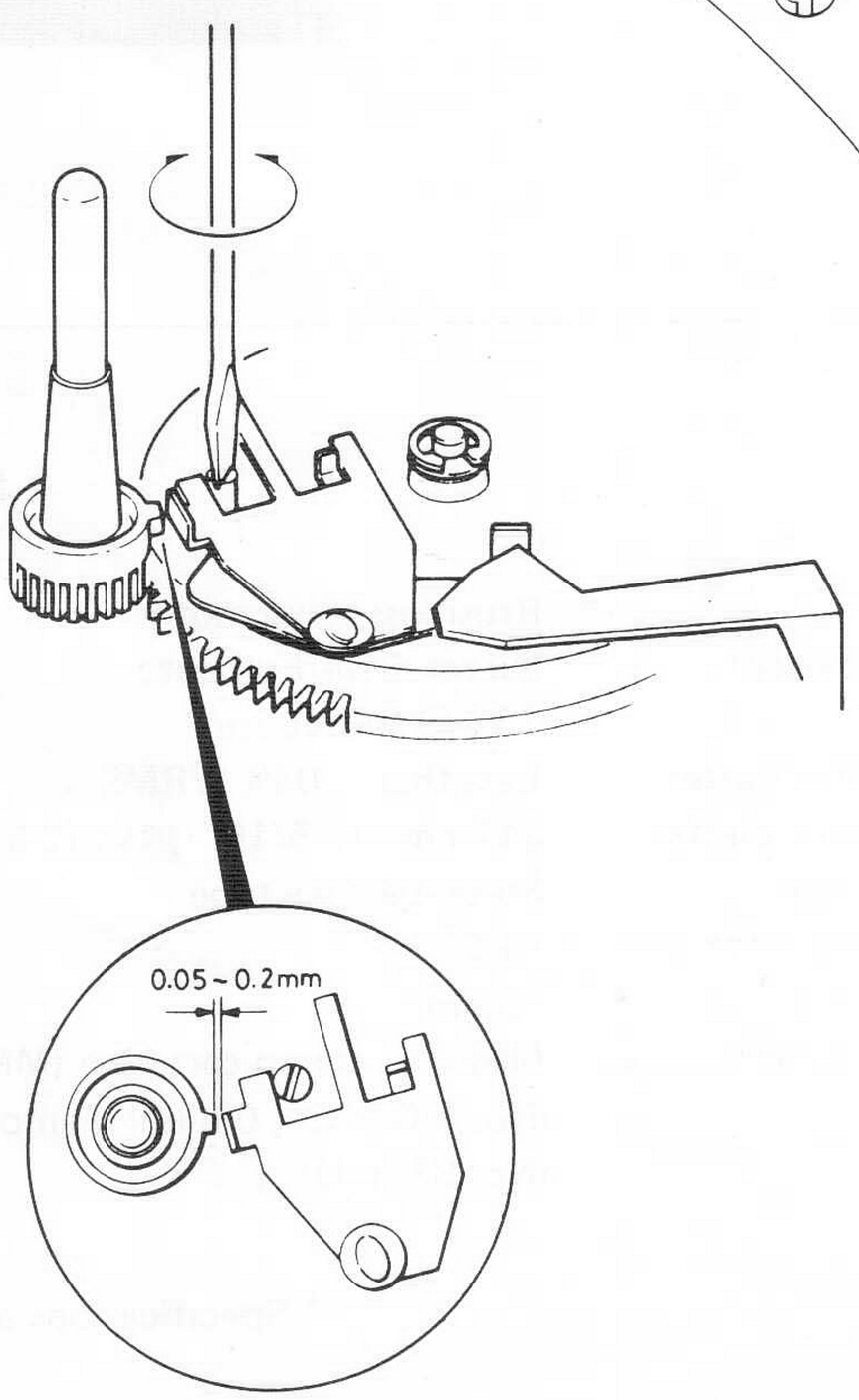
a. When the needle in the arm has reached a point between 35 to 38mm of the outer edge of the record, insert the screwdriver in the hole shown in the figure and adjust the micro-switch so that the turntable begins to revolve or the neon lamp lights up.
b. As you move the arm toward the turntable, the lever (M19) pressing down on the micro-switch will become disengaged and the turntable will begin to revolve or the neon lamp will light up. In order to make certain that, whichever of these two actions takes place, the other will be activated by the arm within a distance of 5mm, use the nut 2.6 x 10mm (Y21) to adjust the timing.



ADJUSTMENT OF AUTO-RETURN

1. Turn the shaft C to adjust (visually) so that the most approach value of the protrusion A of a lever caulked to a gear (M34) and the protrusion B of a pinion of the motor shaft comes within the range of 0.05 ~ 0.2mm.
2. There is a shaft which is accessible with an ordinary screwdriver through the hole below the tonearm. (See illustration at right.) When the stylus has reached a point approximately 55mm from the turntable center, turn the shaft clockwise or counterclockwise and select a position where it actuates the auto-return.

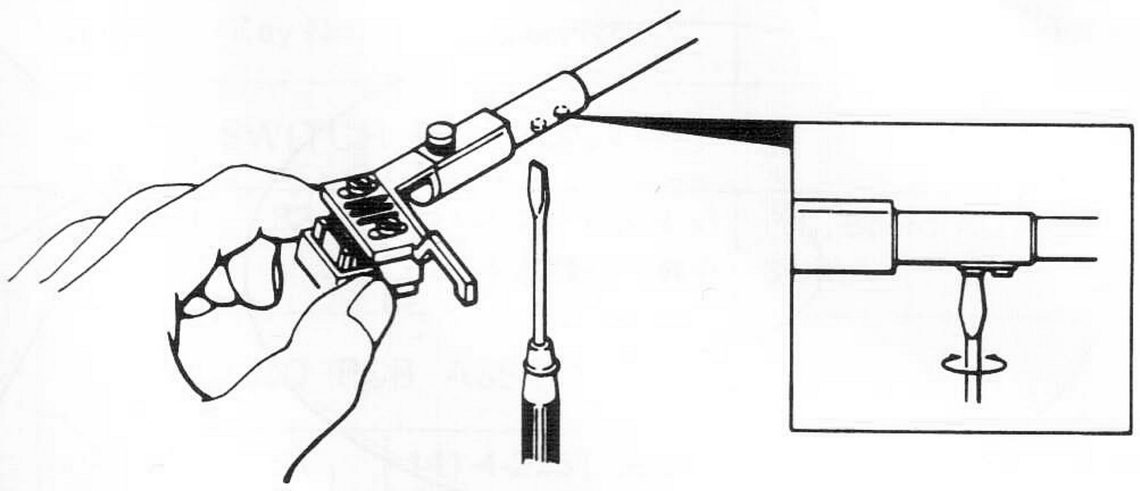




ADJUSTMENT

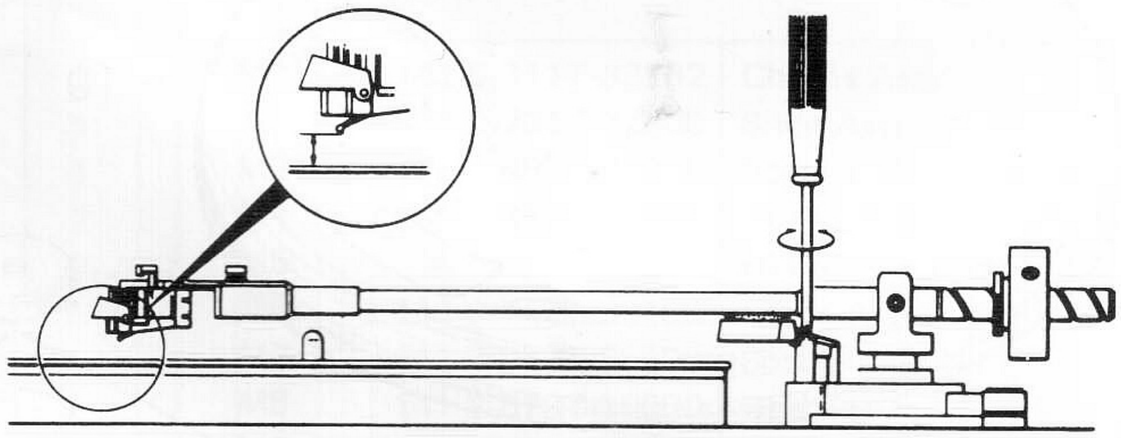
ADJUSTMENT OF HEADSHELL

The headshell attached to the tonearm should not be inclined either to the right or to the left. If necessary, loosen the two screws on the bottom of the tubular arm and adjust the headshell. Be sure that the stulus is normal to the record surface.



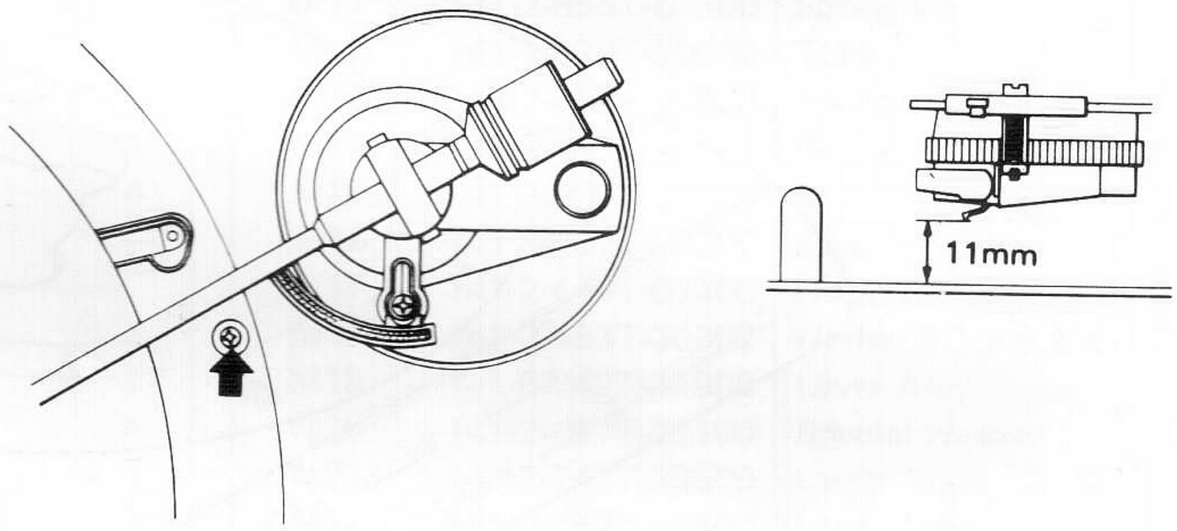
ADJUSTMENT OF TONEARM LIFTER

Set the cuing lever to UP and the distance between the stylus and the record to about 9mm by adjusting the arm lifter screw.



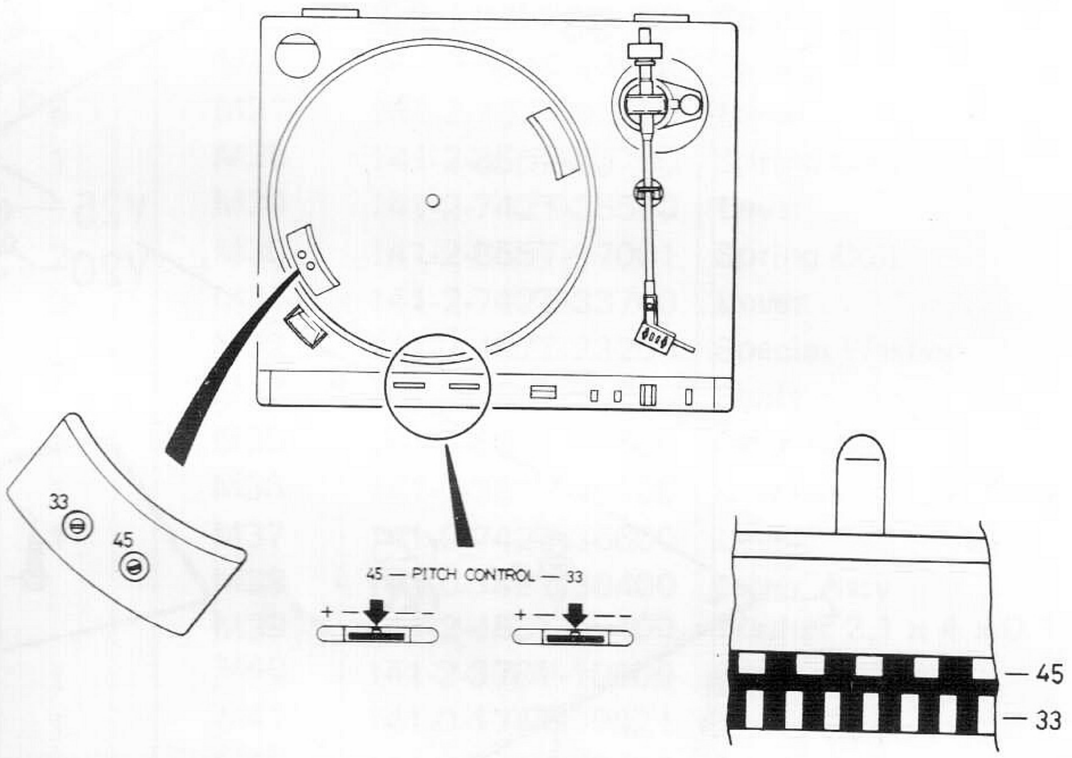
ADJUSTMENT OF LIFT-UP LEVER SPRING

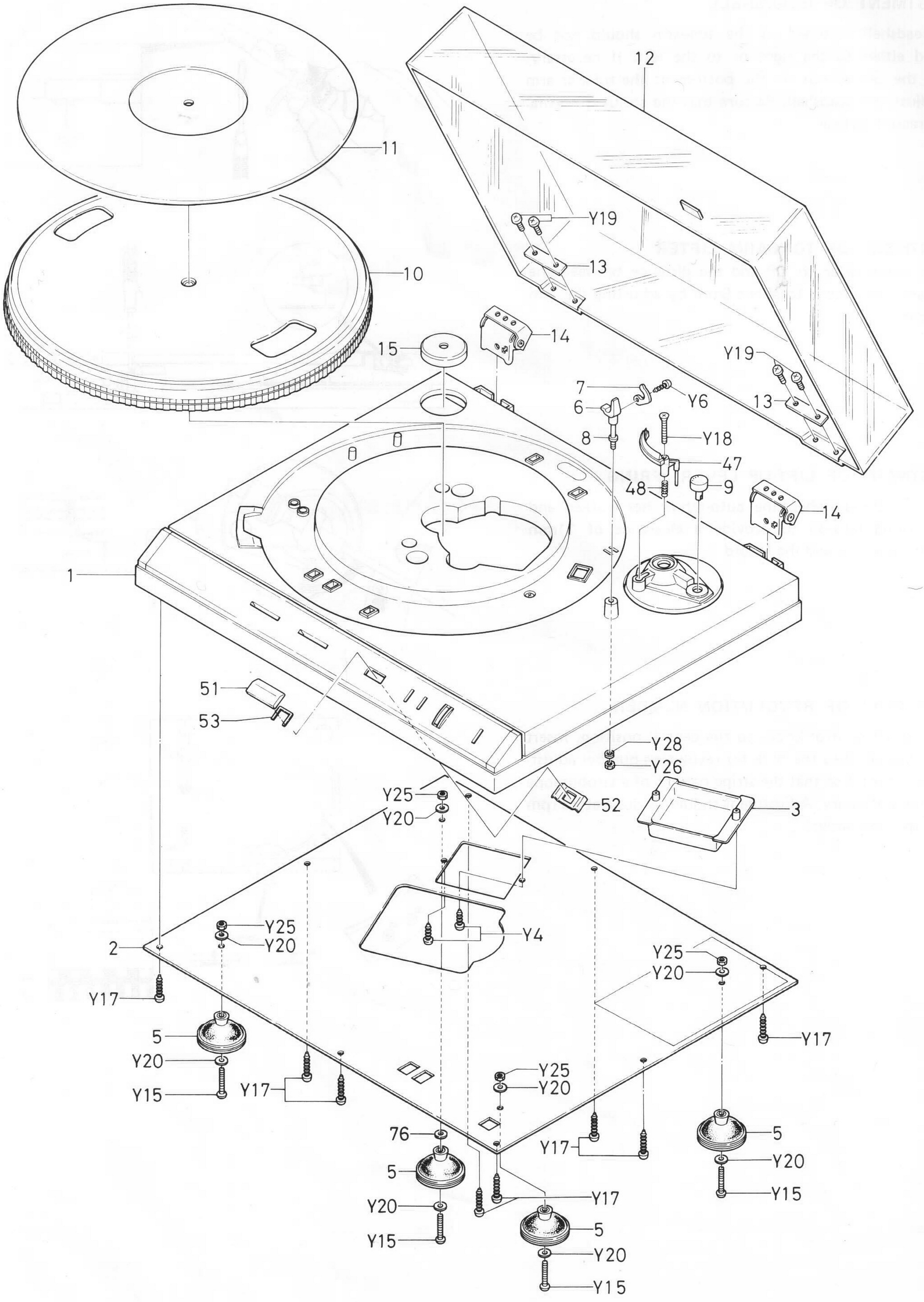
Switch off power when the auto-return has worked and adjust spring tension to provide a clearance of 11mm between the stylus and the record.

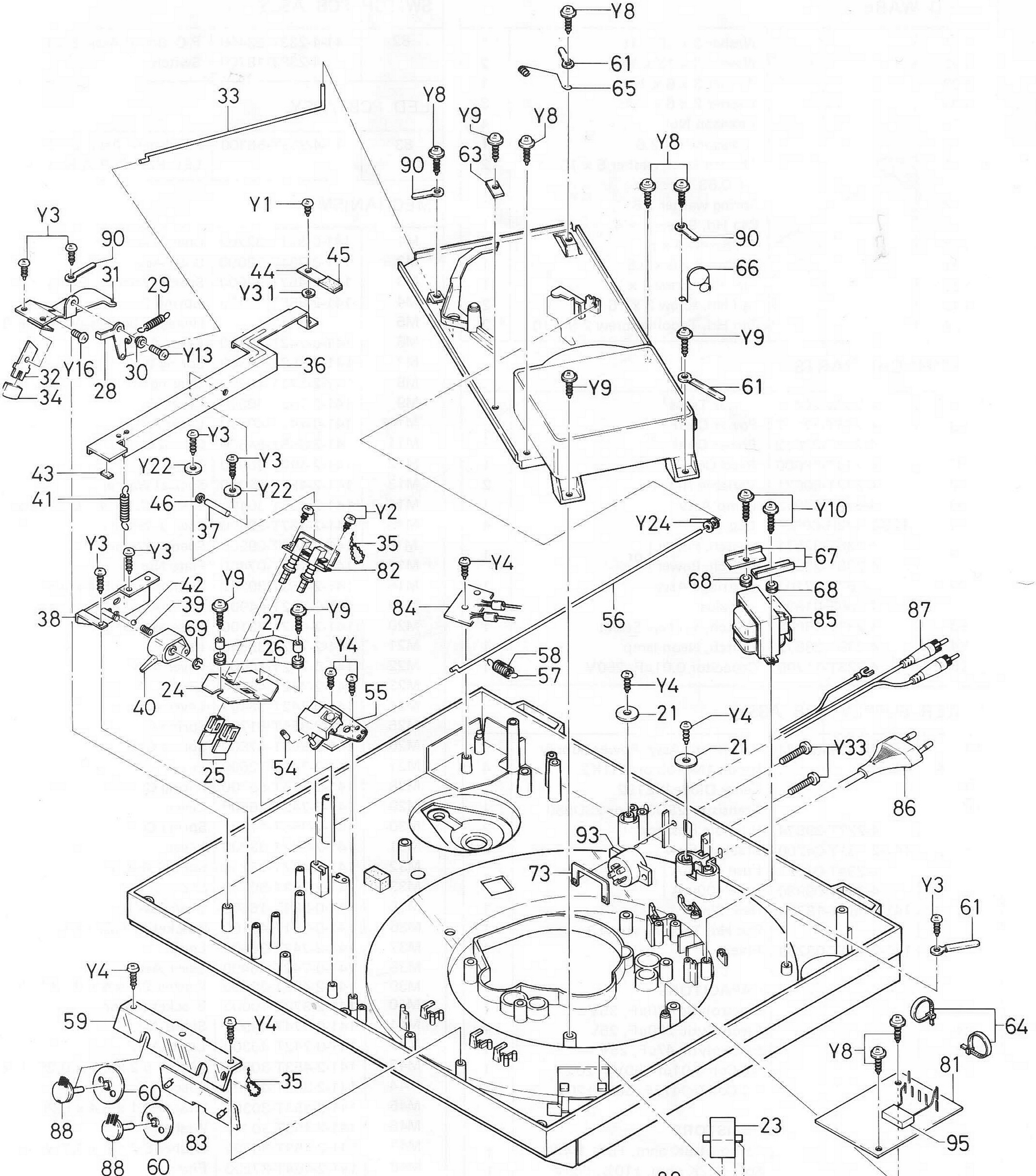


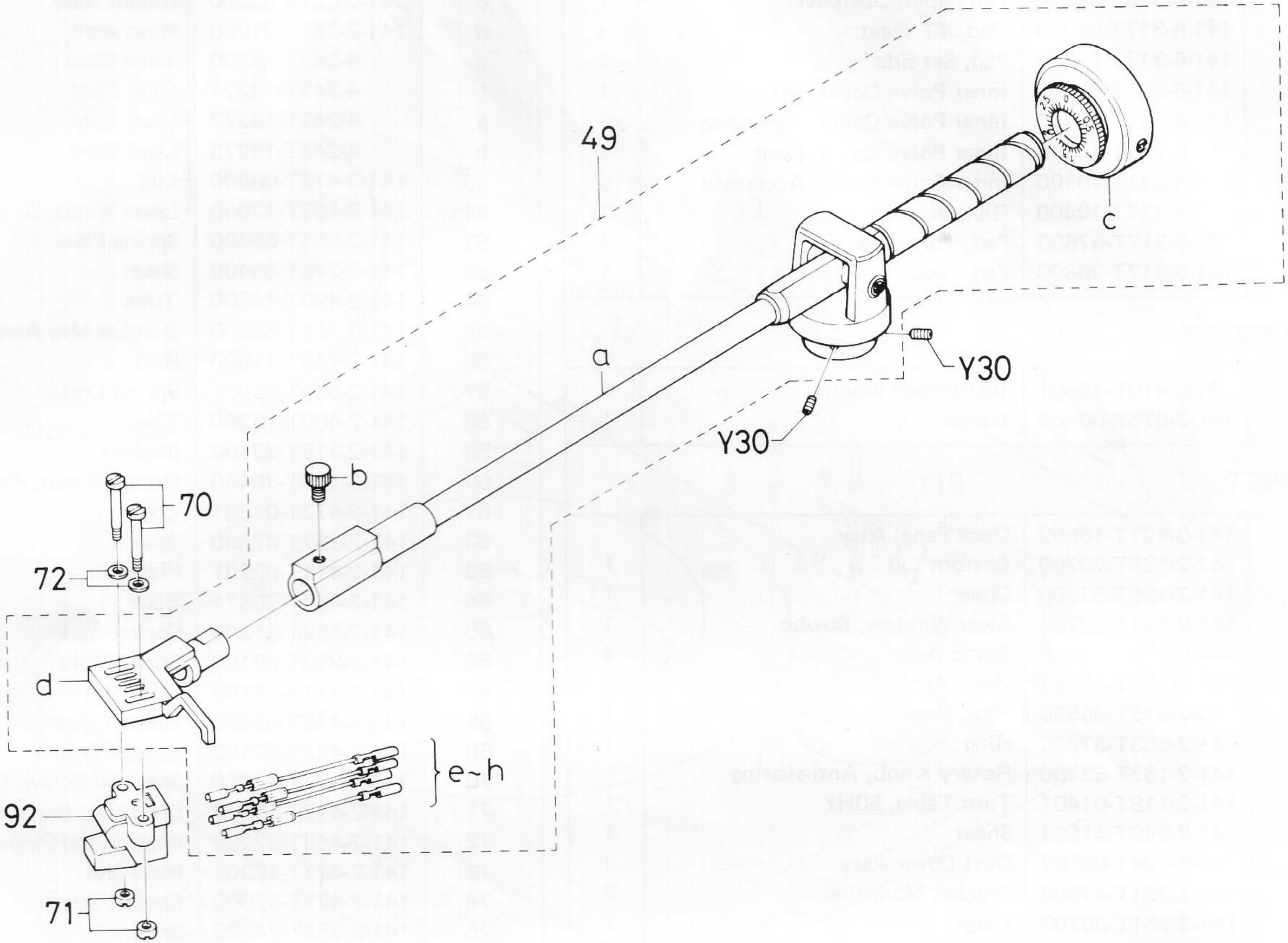
ADJUSTMENT OF REVOLUTION NUMBER

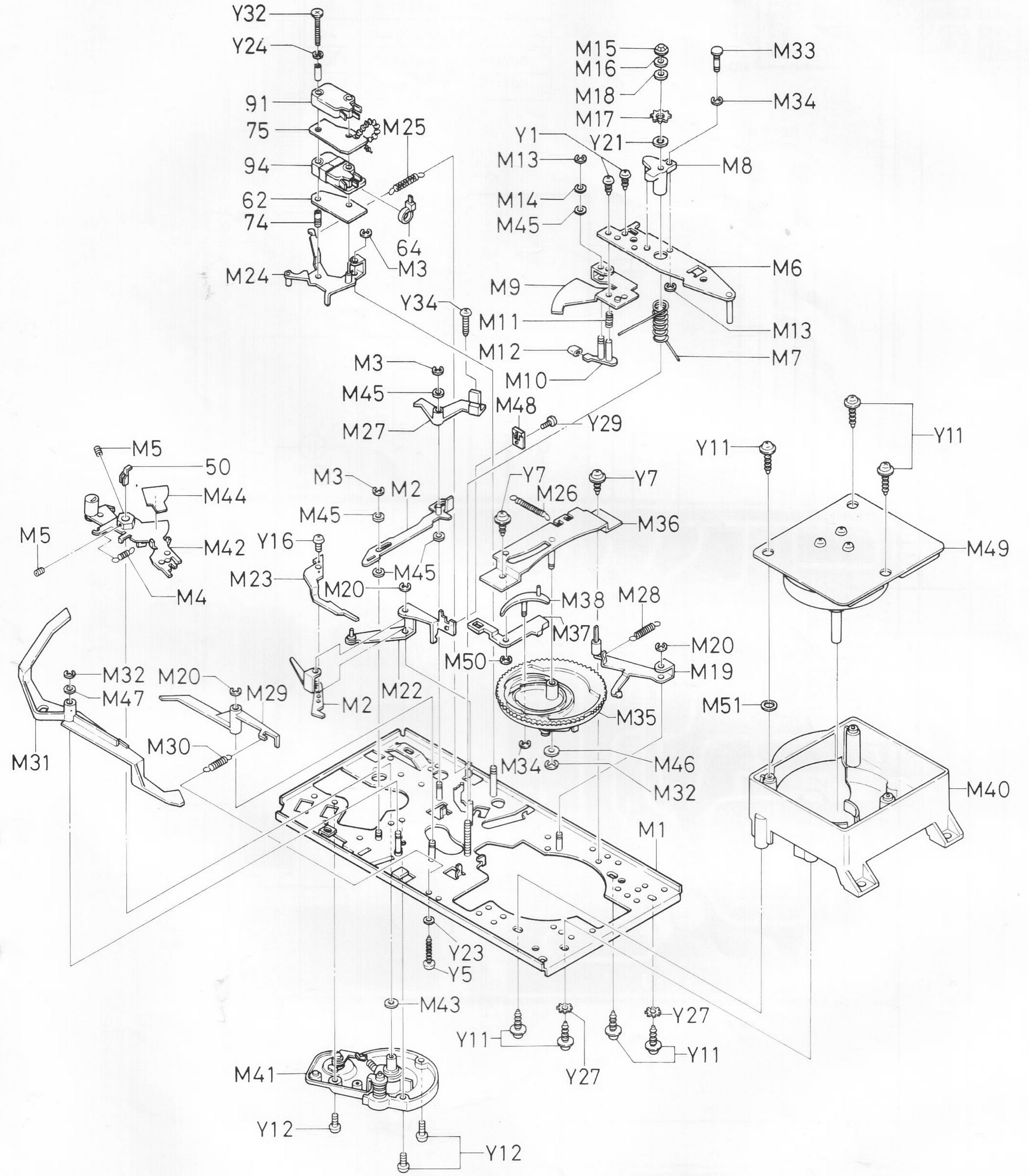
Set the pitch control knobs to the central position. Insert the screwdriver into the hole for revolution number adjustment, and turn it so that the stripe pattern of a stroboscope looks like stationary. Adjustment should be done at 33 rpm and 45 rpm respectively.




11
10
12
Y19
13
14
15
7
6
Y6
8
Y18
47
48
9
1
51
53
52
3
Y28
Y26
Y25
Y20
2
Y4
Y17
5
76


Y8
61
65
Y8
Y9
Y8
Y8
90
63
90
66
Y9
61
Y9
33
Y1
Y3
90
45
44
31
Y31
29
Y13
36
Y16
30
28
32
34
Y3
Y22
Y3
Y22
43
41
46
37
Y2
35
82
Y3
Y3
Y4
84
42
39
38
Y9
Y9
27
26
69
40
24
Y4
55
58
57
54
25
56
Y24
Y10
67
68
68
85
87
Y4
21
Y4
21
Y33
86
93
73
Y3
61
Y4
59
Y4
64
Y8
81
60
35
88
88
60
83
95
23
89
22
4


49
a
b
c
Y30
Y30
70
72
d
e~h
92
71


Y32
Y24
91
75
94
62
74
M24
M25
64
M3
Y34
M3
M45
M27
M15
M16
M18
M17
Y1
Y21
M13
M14
M45
M33
M34
M8
M6
M9
M11
M12
M10
M13
M7
M48
Y29
M5
50
M44
M5
M42
M4
M3
M2
M45
Y16
M23
M45
M20
Y7
Y7
M26
M36
M38
M28
M37
M20
M19
M50
M35
M32
M47
M31
M20
M29
M30
M2
M22
M34
M46
M32
Y11
Y11
M49
M51
M40
M1
Y23
Y5
M43
Y11
Y27
Y27
Y11
M41
Y12
Y12

Q 1	2SD 330E or 2SD 880Y
D 1	1N 4003 or SR1K2
D2	1N 4003 or SR1K2
D3	1N 4003 or SR1K2
D4	1N4003 or SR1K2
LED 1	SLP135BA or SLP135BB
LED 2	SLP135BA or SLP135BB